

**PATENT APPLICATION**

**SYSTEM AND APPARATUS FOR LINKING MULTIPLE REWARDS  
PROGRAMS TO PROMOTE THE PURCHASE OF SPECIFIC  
PRODUCT MIXES**

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PRODUCT MIXES**

**BACKGROUND OF THE INVENTION**

5    [0001]       In today's environment, marketing programs are targeted at consumers and the value propositions associated with them are primarily singular. That is, known marketing programs are tailored towards individual products and provide for specific rewards tied to specific products. For example, a store's marketing program may provide for a reward of \$0.25 after the consumer purchases a particular brand of toothpaste. Thus, many individual,  
10   discrete programs are deployed and targeted at various consumer market segments. Each program is managed individually (as opposed to campaign-wide).

      [0002]       The effectiveness of such individual programs is limited. For example, individual Retailer H may have a program for marketing Beer X, while Retailer I may have a program for marketing Nuts Y. Retailer H may provide a \$0.50 reward for the purchase of  
15   each Beer X and Retailer I may provide a \$0.50 reward for the purchase of each Nuts Y. Retailer H and Retailer I have maximized the potential sales for Beer X and Nuts Y with these individual marketing programs.

      [0003]       It would be desirable if there could be a way to increase the synergy between existing marketing programs (like the ones described above). It would also be desirable to  
20   increase sales by leveraging pre-existing marketing programs.

      [0004]       Embodiments of the invention address these and other problems.

**SUMMARY OF THE INVENTION**

      [0005]       Embodiments of the invention allow for multiple pre-existing reward programs with respective pre-existing reward triggers to be linked together to form a new  
25   combination reward program with a new reward trigger. The new combination reward can be greater in value than each individual reward in each individual program. Embodiments of the invention enable merchants to "bundle" programs already in existence. That is, they can re-package the marketing programs that they already have in order to further increase sales.

      [0006]       Merchants are willing to bundle programs and accept decreased margins in  
30   return for higher total sales volumes. Consumers who purchase products through the

combination program can receive incrementally higher rewards than by purchasing products through separate reward programs so that consumers also benefit from embodiments of the invention.

[0007] In some embodiments, the combination reward program can be embodied by a single application or set of software components (which may be part of a system) residing within an acceptance device at an acceptance point. This provides the means for an electronic reward sponsor and/or merchant to encourage consumer purchases involving a specified mix or combination of programs.

[0008] The linking process according to embodiments of the invention facilitates cross-merchant pollination, and increased sales. The application can be extended to programs belonging to different merchants. For example, in the example described in the Background of the Invention section above, Retailers H and I could effectively increase their sales by “linking” their programs together. For example, a new enhanced trigger of buying 2 Beer Xs and 2 Nuts Y would result in a greater reward of an additional \$1 off addition to the \$2 (for a total reward of \$3) that would have been rewarded had the products been individually purchased. Advantageously, Retailers H and I need not modify their existing programs, and can still expect to see increased sales, because their programs are linked together. A number of more specific examples are provided below.

[0009] One embodiment of the invention is directed to a method comprising: (a) receiving information about a first reward program for a first product, wherein the first pre-existing reward program provides for a first reward; (b) receiving information about a second pre-existing reward program for a second product, wherein the second reward program provides a second reward; and (c) providing for a combination reward program that provides a combination reward that is based on at least the purchase of the first product and the second product, and wherein the combination reward is greater than each of the first reward and the second reward.

[0010] Another embodiment of the invention is directed to a computer readable medium comprising: (a) code for receiving information about a first pre-existing reward program for a first product, wherein the first reward program provides for a first reward; (b) code for providing for receiving information about a second pre-existing reward program for a second product, wherein the second reward program provides a second reward; and (c) code for providing for a combination reward program that provides a combination reward that is based on at least the purchase of the first product and the second product, and wherein the combination reward is greater than each of the first reward and the second reward.

[0011] These and other embodiments of the invention are described in further detail below with reference to the Figures.

## BRIEF DESCRIPTION OF THE DRAWINGS

[0012] FIG. 1 shows a flowchart according to an embodiment of the invention.

5 [0013] FIG. 2 shows a block diagram of some components that could be used in a GUI (graphical user interface).

[0014] FIG. 3 shows a system according to an embodiment of the invention.

[0015] FIG. 4 shows a block diagram of a smart card according to an embodiment of the invention.

10 [0016] FIG. 5 shows a Venn diagram showing the different, but related programs that can be used in embodiments of the invention.

[0017] FIG. 6 shows a Venn diagram and a box indicating that a reward will be reduced if a certain product is purchased.

[0018] FIG. 7 shows a Venn diagram showing first, second, and third programs and  
15 the different combination reward programs that can result from different permutations of the first, second, and third programs.

## DETAILED DESCRIPTION

[0019] Embodiments of the invention can be used in a variety of different ways, and by a variety of different entities.

20 [0020] Embodiments of the invention can be used in retail merchant and service organization payment systems (that may include acceptance points) that interface to a portable consumer device in the context of a transaction where the consumer is provided with variable incentives (*e.g.*, “rewards”) when specific purchase behaviors are performed.

[0021] Embodiments of the invention can be used when a consumer may purchase  
25 one or more products (goods or services), invoking a discount on the purchase price or other type incentive or where the consumer may make purchases at multiple locations of a single merchant/service organization or several merchant/service organizations and receives incentives for completing these purchases in a specific manner or in any number of predetermined alternative ways.

30 [0022] Embodiments of the invention can be used when the interface between the portable consumer device and the acceptance device at the acceptance point is desirably

performed offline and, accordingly, data elements needed to calculate and record reward accumulations and redemptions are stored within an internal memory of the portable consumer device.

**[0023]** Embodiments of the invention can be used where the sponsor of a specific electronic reward or the operator of one or more acceptance points can define the rules associated with the accumulation and/or redemption of such rewards. The rules may include, but are not limited to loyalty purchase linkages that are dependent on the purchase of one or more specific products or services. The rules may also potentially exclude the purchases of other specific products or services. When such purchases are completed according to one or more of the rules, rewards associated with purchases of other specific products or services or at other merchants and/or locations may be triggered. Such rewards may be designed to provide incentives to the consumer to purchase, consume, and/or utilize at least two different products (*e.g.*, goods and/or services), at two different locations and/or merchants in a predetermined order, quantity or mix.

**[0024]** Embodiments of the invention can be used where existing smart card-based, offline loyalty programs link the accumulation and redemption of rewards to the purchase of a single product/service, product/service group, merchant, or merchant group and cannot require or offer discounts on purchases of other product/service(s) or from other merchants or merchant locations. Such restrictions prevent the creation of programs that link purchases of specific products and/or services to the purchase of other products and/or services and/or to specific locations or merchants. The restrictions prevent the creation of programs that link rewards to purchases of multiple products/services/locations in specific quantities, in a particular sequence, and/or over a specific time period together.

**[0025]** Embodiments of the invention can be used in existing offline loyalty systems. In existing offline loyalty systems, merchants and reward sponsors want to have the ability to create such reward programs in order to support and enhance their complex marketing strategies and to provide incentives to consumers to perform certain increasingly complex purchase behaviors that link products, services, purchase locations, purchase sequences, and time periods in a mix according to the reward sponsor's choice.

**[0026]** As will be apparent from the various examples provided below, embodiments of the invention have a number of advantages. First, embodiments of the invention enable a rewards sponsor (*e.g.*, a host organization such as a credit or debit card company) to establish rewards programs that encourage distinct purchasing behaviors and promote the purchase of specific products and the utilization of specific merchant locations or merchants in order to

support a broader marketing strategy. This elevates the marketing precision from programs to campaigns, from products to product lines, and/or from single merchants to a network of merchants. Second, embodiments of the invention also advantageously allow for the re-use of existing programs. They enable a host organization such as a credit, debit and/or smart  
5 card issuer to capitalize on existing programs. That is, existing programs can be used to spawn an entirely new inventory of programs from pre-existing components.

**[0027]** Embodiments of the invention are directed to methods and systems that link pre-existing reward programs together to provide enhanced combination rewards. The methods and systems can be used in any suitable environment. For example, embodiments of  
10 the invention can be used in retail merchant and service organization payment systems that include a number of “acceptance points.” Each acceptance point may accept a portable consumer device such as a smart card. An acceptance point may be a “point of sale” (POS). A point of sale can be a point where a consumer uses the portable consumer device to purchase a good or service. Examples of points of sale include cash registers at stores or  
15 restaurants, as well as home computer terminals with access devices that can read and write data to a portable consumer device.

**[0028]** A method according to an embodiment of the invention is shown in FIG. 1. As shown in FIG. 1, a host organization (or merchant) such as a reward sponsor can receive information about a first reward program (step 10). The first reward program can be a first  
20 pre-existing reward program for a first product, where the first reward program provides for a first reward. Before or after this step, the host organization (or merchant) may receive information about a second reward program (step 12). The second reward program can be a second pre-existing reward program for a second product, where the second reward program provides for a second reward.

**[0029]** The “products” according to embodiments of the invention may include any number of goods and services. Exemplary goods include ordinary household goods, food items, toys, gifts, etc. Exemplary services includes services such as dining, dry cleaning, hotel services, etc.

**[0030]** Information about the first reward program and the second reward program  
30 can be obtained in any suitable manner. For example, in some embodiments, information about the first reward program and the second reward program may be obtained from different merchants electronically, and can be received at a server computer in the host system operated by a host organization. Alternatively, the first and second reward programs may originate from the same organization that creates the combination reward program. The

host organization's server computer may then create the combination reward program using the information about the first reward program and the second reward program.

[0031] Although a first product and a corresponding first reward program, and a second product and a corresponding second reward program are discussed in detail in this application, it is understood that embodiments of the invention can be extended to an additional third product with a corresponding third reward program that provides for a third reward, an additional fourth product that corresponds to a fourth reward program that provides for a fourth reward, etc. Any suitable number or combination of programs can be used to form the combination reward program.

[0032] In some embodiments, the first product may be made by or serviced by a first manufacturer, retailer, or service provider, while the second product may be made by or serviced by a second manufacturer, retailer, or service provider (different than the first manufacturer or service provider). Enhanced rewards can be provided, even though the different products come from different manufacturers, retailers, and/or service providers. In one example, the first, second, third, etc. products can be made by different manufacturers, but can be sold by the same merchant. In another example, first, second, and third, etc. products can be sold by different merchants, but can be made by the same manufacturer. In some embodiments, the user of a portable consumer device can receive a combination reward even if the user purchases products at different merchants within a predetermined period of time.

[0033] Using the information in steps 10 and 12, a combination reward program that provides a combination reward can be provided (step 14). Typically, a host organization such as a credit, debit, or smart card issuer can provide the combination reward program and the combination reward. However, in other embodiments, a merchant that sells a particular product, or even the originator of the product (*e.g.*, a manufacturer), can provide the combination reward program and the combination reward for the consumer.

[0034] For each combination reward program, different pre-existing programs can be linked together in any suitable manner. The linking process facilitates reward accumulation and redemption triggers using linking functions (*e.g.*, "and", "or", "not", "not( and nor or)") at the intersections of the pre-existing programs. New triggers and rewards can be specified for each intersection of programs to spawn entirely new programs. This is shown in the examples below. At each intersection, the value of the reward grows proportionately larger (benefits the consumer), while the minimum trigger amounts/quantity purchased also increase (benefits the merchant).

**[0035]** Preferably, the value of the combination reward may be greater than the value of each individual reward by any suitable amount. For example, in some embodiments, the combination reward may be 10, 20, 50, or even 100 percent greater in value than each individual reward associated with each individual reward program used to form the combination reward program. Also, the combination reward may be the same or different type than the individual rewards. For example, the combination reward may be a reward based on time, whereas the individual rewards may be based on dollar value.

**[0036]** As noted above, the increased trigger for the combination reward may be greater than the trigger of each individual reward. In some embodiments, the increased trigger for the combination reward may be the purchase of two products, instead of a trigger of the purchase of one product in an individual program. The reward triggers may be set by the entity creating the combination reward program.

**[0037]** The combination reward program (as well as the pre-existing programs used to form the combination reward program) may be embodied as computer code which can be stored on a computer readable medium, and it may be created automatically by a computer. Consequently, the combination reward program and the receipt of information about the various pre-existing reward programs used to form the combination reward program can be run on one or more digital computers in some embodiments of the invention. The computer readable medium can be present in the above described access device, server computer, or portable consumer device. The computer readable medium containing code for the combination reward program preferably resides on at least the access device. Access devices, server computers, and portable consumer devices are described in further detail below.

**[0038]** FIG. 2 shows a block diagram of features that might be used in embodiments of the invention. A GUI (graphical user interface) can be created by those of ordinary skill in the art using these features and/or other features. Block 110 includes a list of products with corresponding SKUs (stock keeping units). Block 116, shows “or”, “and”, or “not” logic that can be selected by a user to link different programs. Group lists satisfying the logic in block 116 are represented by block 118. Suitable object-relationship software tools to perform these functions are known to those of ordinary skill in the art.

**[0039]** The combination reward program may be used in a system that automatically monitors and records a consumer’s purchases, and then provides the combination reward when the appropriate combination reward trigger is satisfied. A system according to an embodiment of the invention may include a server computer, an access device, and a communication medium. In some embodiments, a physical point of sale device may be in

communication with a host server computer operated by a particular merchant via a communication medium such as the Internet. A central body (e.g., a merchant organization) can establish reward program parameters and can provide a facility for merchants and other participants to download such parameters and terms and conditions to each card acceptance device (CAD). In other embodiments, a consumer can use a portable consumer device with a card acceptance device (CAD) that is offline, and is not in communication with a host server computer.

[0040] FIG. 3 shows a block diagram of a system 70 according to an embodiment of the invention. The system 70 includes a server computer 52 coupled to access devices 56(a), 56(b) via a communication medium 54. The communication medium 54 may include any suitable electronic data communication medium including wired and/or wireless links. The communication medium 54 may include the Internet.

[0041] Computer terminals (not shown) such as personal computers may be between the access devices 56(a), 56(b) and the communication medium 54. The access devices 56(a), 56(b) may be card access devices (CADs) and are respectively at different points of sale 58(a), 58(b). The different points of sale 58(a), 58(b) may include, for example, cash registers in stores, kiosks, etc. Two points of sale 58(a), 58(b) are shown for simplicity of illustration, and embodiments of the invention can have many more points of sale, access devices, etc. The server computer 52 may run a website for a merchant or for an organization associated with the merchant (e.g., a credit card company).

[0042] The access devices according to embodiments of the invention can be in any suitable form. Examples of access devices include point of sale (POS) devices, cellular phones, PDAs, personal computers (PCs), tablet PCs, handheld specialized readers, set-top boxes, electronic cash registers (ECRs), automated teller machines (ATMs), virtual cash registers (VCRs), kiosks, security systems, access systems, and the like.

[0043] The server computer 52 is typically a powerful computer or cluster of computers. For example, the server computer 52 can be a large mainframe, a minicomputer cluster, or a group of servers functioning as a unit. In one example, the server computer 52 may be a database server coupled to a web server. Moreover, the server computer 52 can behave as a single computer, which services the requests of one or more client computers coupled to or incorporated in the access devices 56(a), 56(b).

[0044] At each point of sale 58(a), 58(b), each consumer can use a portable consumer device 60(a), 60(b), which can engage an access device 56(a), 56(b). For example, the access devices 56(a), 56(b) may be card access devices, and the portable consumer devices

60(a), 60(b) may be smart cards. The smart cards can be inserted into or pass through a portion of the access devices 56(a), 56(b) to engage them. Each access device 56(a), 56(b) can read or write data to a computer readable medium in a portable consumer device 60(a), 60(b). Such data may include information about past purchases, so that determinations about combination rewards can be made.

[0045] Each portable consumer device 60(a), 60(b) can be uniquely associated with a different consumer. For example, each portable consumer device 60(a), 60(b) could be a smart card that is used by a particular consumer. Each portable consumer device 60(a), 60(b) may have data specifically associated with each consumer on it. For example, each portable consumer device 60 may be embossed with a consumer's account number, a consumer's name, etc. This information can also be stored electronically in the portable consumer device 60.

[0046] The portable consumer devices 60(a), 60(b) according to embodiments of the invention may be in any suitable form. For example, the portable consumer devices can be hand-held and compact so that they can fit into a consumer's wallet and/or pocket (e.g., pocket-sized). For example, the portable consumer devices may include smart cards, ordinary credit or debit cards (with a magnetic strip and without a microprocessor), a keychain device (such as the Speedpass™ commercially available from Exxon-Mobil Corp.), etc. Other examples of portable consumer devices include cellular phones, personal digital assistants (PDAs), pagers, payment cards, security cards, access cards, smart media, transponders, and the like.

[0047] Preferably, the portable consumer devices 60(a), 60(b) are smart cards. A "smart card" generally refers to a wallet-sized card that includes a microprocessor or microcontroller to store and manage data within the card. A typical smart card includes a microprocessor embedded within or on a planar plastic body that is electrically connected to external electrical contacts on the smart card's exterior. The smart card may also include a computer readable medium such as a programmable read only memory (EEPROM) for storing consumer data. Other computer readable media such as ROM (read only memory) or RAM (random access memory) chips may also be included in the smart card. A ROM chip can be used to store a card operating system. A RAM chip can be used for temporarily storing data in the smart card. Any of these examples of computer readable media may be electrically coupled to the microprocessor.

[0048] Software applications, including the combination reward programs described herein, may reside in or provide support to the access devices 56(a), 56(b) or a website run

on the server computer 52. The software applications may be created using any suitable programming language. A set of variable parameters can be used by an application residing on the access devices 56(a), 56(b) or the server computer 52 to determine when rewards are accumulated or redeemed if a qualifying purchase transaction is conducted by a consumer.

5 These parameters can be downloaded and updated from a central host system including the server computer 52.

[0049] Another software component that can be included in the system 70 is within an applet (or other type of program) stored on the portable consumer device 60(a), 60(b) (e.g., smart card, etc.). This component includes a dynamic data field that is updated each  
10 time the corresponding rewards programs accumulate or redeem a reward. This component can also be modified or updated based on consumer identification of product preferences (via a separate software application and card access device (CAD) connected to a kiosk or other computer). These values represent past behaviors and specific consumer product preferences that can be used to customize future reward redemption and accumulation.

15 [0050] A schematic diagram of a portable consumer device 60 in the form of a smart card is shown in FIG. 4. FIG. 4 shows a portable consumer device 60 including a body 68 comprising plastic. The body 68 may be planar and supports a processor and memory 64 as well as input/output terminals 62. The processor and memory 64 may be embedded in or mounted on the body 68. The input/output terminals 62 provide data input and output to the  
20 processor and memory 64. An embossed area 172 is also in the body 68 and may include the consumer's name, expiration date of the portable consumer device 60, etc. A magnetic stripe 76 like those found in ordinary credit cards may also be present in the portable consumer device 76. The magnetic stripe 76 and/or the memory in the processor and memory 64 may constitute a computer readable medium. If the portable consumer device 76 is a smart card, it  
25 may store financial or identification information, and may be a device that conforms to ISO standard 7816, or other smart card standard.

[0051] Using the system shown in FIG. 3 and optionally the smart card shown in FIG. 4, a consumer can receive the combination rewards described herein automatically when a portable consumer device is used. For example, referring to FIG. 3, the two point of sales  
30 58(a), 58(b) may be two different retailers, Retailers F and G. Both access devices 56(a), 56(b) can include a combination reward program that provides an enhanced reward for buying Products C and D. When a consumer engages the smart card 60 with a first access device 56(a) at Retailer F to buy Product C, the access device 56(a) can send the purchase information to the server computer 52 and optionally down to the second access device 56(b).

The purchase information could alternatively or additionally be stored on the smart card 60. When the consumer engages the smart card 60 with the second access device 56(b) to buy Product D, the access device 56(b) can provide a combination reward for the consumer. The prior purchase information of Product C can be retrieved from the server computer 52 if it is not already downloaded to the second access device 56(b), or if it is not stored on the smart card 60. The combination reward may be provided to the consumer automatically via a reduction in price or in the form of an electronic coupon at point of sale 58(b) associated with Retailer G. If the combination reward is in the form of a coupon, the consumer may use the coupon at Retailer G or at another specified retailer.

[0052] A number of specific examples are provided below.

[0053] **EXAMPLES**

[0054] **Example 1**

[0055] Referring to FIG. 5, programs A and B (72, 76) are separate programs operated by Company S. Company S makes Cola Y and Root Beer M. Program A rewards \$0.50 for each Cola Y purchased. Program B rewards \$0.50 for each Root Beer M purchased. Program AuB (74) links program A to program B and increases the minimum trigger to two Cola Ys and one Root Beer M. The combination reward also increases to \$1.50. Without the linked Program AuB (74), the maximum reward would have been \$1.00 (\$0.50 + \$0.50). Program AuB allows a cardholder or consumer to save more by purchasing more.

[0056] **Example 2**

[0057] FIG. 6 shows a variation on the programs illustrated in Example 1 and FIG. 5. Company S has a program C (75) that works in conjunction with program AuB (74) by providing another program 75 that provides a reward of an additional \$0.60 for only purchasing products made by Company S, and not Cola Z produced by Company T.

[0058] The application of this Boolean example can be applied to many parameters and parameter combinations (such as adding cardholder ID, card groups, programs, Issuer ID, merchant groups, SKUs,) to further segregate and personalize rewards.

[0059] The Boolean logic for these complex programs can be converted into a human readable format by translating the new program equations into simple text, which can be printed or displayed to a cardholder. This text defines the new program rules for participating

in a program. For example, text that corresponds to this example may be: “[i]n order to qualify for an additional \$0.60 reward you must purchase 2 Cola Ys and one Root Beer M; but is null if combined with a purchase of Cola Z.”

**[0060] Example 3**

5 **[0061]** In this example, 3 programs may be combined together to form multiple combination reward programs. Program X belongs to Merchant 1. Program Y belongs to Merchant 2. Program Z belongs to Merchant 3. All Merchants belong to the same loyalty network owned by a host organization (*e.g.*, a credit or debit card company) and want to gain additional synergies from existing Programs X, Y and Z. The host organization links  
10 Programs X, Y and Z together to form a new combination reward Program XYZ. The reward value for participating in all three programs is higher than the reward of each individual program combined, thus providing additional incentive to the cardholder to participate in all three programs. The minimum trigger for combination reward Program XYZ is higher than the triggers for each individual program combined and satisfies the Merchants’ desire for  
15 increased sales volumes.

**[0062]** The use of at least 3 programs with different intersecting combination reward programs can be described with reference to FIG. 7. Referring to FIG. 7, programs A, B, and C (**80**, **82**, and **84**) are separate pre-existing programs. The separate programs A, B, and C may be run by three respectively different merchants, or companies. Alternatively, programs  
20 A, B, and C can be run by the same merchant or company.

**[0063]** Program A (**80**) rewards \$0.50 for each Bleach W purchased. Program B (**82**) rewards \$0.75 for each Detergent X purchased. Program C (**84**) provides a reward of \$0.50 with the purchase of 1 Dryer Sheet Y.

**[0064]** Programs A, B, and C (**80**, **82**, and **84**) can be linked in binary ways to  
25 produce combination rewards that are dependent on pre-existing Programs A, B, and C. A combination reward produced and/or any reward trigger from any two of Programs A, B, and C will be greater than the individual rewards/triggers for Programs A, B, and C. For example, Program AuB links Program A to Program B and increases the minimum trigger to 2 Detergent X and 1 Bleach W. The reward for each Detergent X increases from \$0.75 to  
30 \$1.00 for a maximum reward of \$2.50. Without the linked Program AuB, the maximum reward would have been \$2.00. Program AuB allows cardholder to save more by purchasing more. Similar results are obtained for Programs AuC (**86**) and BuC (**90**).

[0065] Programs A, B, and C (80, 82, and 84) can also be linked in a trinary way. For example, a Program AuBuC (88) can be linked to pre-existing programs A, B, and C (80, 82, and 84). The trigger for combination reward program for AuBuC (88) is 2 Detergent Xs, 1 Bleach W, and 2 Dryer Sheets V, while the combination reward is a free Stain Remover U.

5 The Stain Remover U reward is greater in value than any of the rewards provided in programs A, B, and C (80, 82, and 84) independently.

[0066] In the example shown in FIG. 7, 3 different programs have been linked to create 4 combination programs: AuB, AuC, BuC, and AuBuC. Each binary combination program AuB, AuC, and BuC provides a higher trigger and a higher reward than each individual program A, B, and C. The trinary combination program, AuBuC, provides a greater reward and trigger than each individual program A, B, C, and each binary combination program AuB, AuC, and BuC. This example illustrates that embodiments of the invention can create a greater number of combination programs than individual programs. It also shows that higher-order combination programs (*e.g.*, ternary combination programs) can be created using lower-order combination programs (*e.g.*, binary combination programs).

[0067] **Example 4**

[0068] Embodiments of the invention may also provide for rewards that are based on time. For example, a consumer may be encouraged to buy Cola Y and receive a reward. The resulting combination reward (for the purchase of Cola Y and another predetermined product) may be that the end date for all programs will be extended for an additional 30 days. Additionally or alternatively, there can be an additional program where a loyal consumer participates in all Programs (AuB)u(1u2), where A, B, 1, and 2 all represent different programs. Preferred consumers (*e.g.*, preferred cardholders) can access to a set of special programs 10 days earlier than consumers who have not satisfied the predetermined combination reward program reward triggers.

[0069] The terms and expressions which have been employed herein are used as terms of description and not of limitation, and there is no intention in the use of such terms and expressions of excluding equivalents of the features shown and described, or portions thereof, it being recognized that various modifications are possible within the scope of the invention claimed. Moreover, any one or more features of any embodiment of the invention may be combined with any one or more other features of any other embodiment of the invention, without departing from the scope of the invention.

**[0070]** Also, it should be understood that the present invention as described above can be implemented in the form of control logic using computer software in a modular or integrated manner. Based on the disclosure and teachings provided herein, a person of ordinary skill in the art will know and appreciate other ways and/or methods to implement the present invention using hardware and a combination of hardware and software.

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**[0071]** All references, patent applications, and patents mentioned above are herein incorporated by reference in their entirety for all purposes. None of them are admitted to be prior art to the presently claimed inventions.